

NWS Form E-5

(04-2006)

(PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

San Angelo, TX

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:

MONTH

YEAR

August

2011

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE

Jason Johnson

DATE

September 19, 2011

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

X An X inside this box indicates that no flooding occurred within this hydrologic service area.

Remarkably warm temperatures and dry conditions during August, 2011, caused numerous climate records to be broken at both Abilene and San Angelo. Most notable was the warmest August on record observed at Abilene and San Angelo. The upper level high pressure system centered over the southern plains during much of the month brought very hot and dry conditions to the region. The number of days in August where high temperatures reached 100 degrees or more includes 27 at Abilene, 28 at San Angelo and 28 at Junction.

For a brief period during the middle of the month (11th-14th) the high pressure system shifted to the west and allowed northwestern flow across the area. With this brief change in the weather pattern, low level moisture was ushered in from the gulf and showers and thunderstorms developed along a cold front moving down across the southern plains.

Starting on the 11th, scattered rain showers covered portions of Sterling, Irion, eastern Crockett, Sutton and Kimble Counties. Parts of Sutton County received as much as 1.5" to 3" of rain. On the 12th, rain showers developed over the Big Country where isolated areas across eastern Taylor, western Callahan and Shackelford Counties received 1" to 4" of rain. Haskell and Throckmorton received 0.5" to 2" of rain. Early on the 13th, thunderstorms developed across north Texas and slowly drifted southward. Between 8am-9am, the storms were located along a line from northern Tom Green County to Brown County. At this location, the storms became stationary and produced very heavy rain over parts of San Angelo. Some areas in San Angelo reported over 6" of rain on the morning of the 13th. Widespread street flooding in San Angelo stranded motorists and caused numerous water rescues. The City of San Angelo reported that 50 homes were affected by flood waters.

Overall, drought conditions continued to intensify across the HSA during August. While the rain brought short-term relief to portions of the HSA, the U.S. Drought Monitor depicted extreme to exceptional drought conditions across west central Texas at the end of August. The USGS Water Watch showed daily streamflows in the HSA were well below normal during most of the month.

The average precipitation reported from coop observers in August was 1.07 inches. The highest monthly precipitation total of 4.00 inches was reported in northern Shackelford County. Coop observers in Shackelford, Taylor and Tom Green Counties received over 3.00 inches of rain in August.

The San Angelo Regional Airport received 1.64 inches of precipitation during August, which was 0.62 of an inch below normal for the month. The monthly normal rainfall for San Angelo in August is 2.26 inches.

The Abilene Regional Airport received 3.91 inches of precipitation during August, which was 1.32 inches above normal for the month. The monthly normal rainfall for Abilene in August is 2.59 inches.

Junction received 0.34 of an inch of rain during August. The estimated average monthly rainfall in August is about 2.75 inches.

Coop Observer Rainfall Totals for August, 2011:

Station Name	Amount (in)		Station Name	Amount (in)
Albany	3.14		Mason	0.07
Acton Ranch	0.62		Menard	2.27
Anson	0.05		Oak Creek Lake	0.52
Ballinger 2NW	2.11		Ozona 22SE	0.18
Brady	0.00		Paint Rock	1.40
Brownwood	1.93		Putnam	1.37
Burkett	1.41		Red Bluff Crossing	0.00
Coleman	1.72		Roscoe	0.14
Concho Park	1.84		Rotan	0.20
Eden	0.80		San Saba 7NW	0.00
Eldorado	0.07		Santa Anna 12SSE	0.00
Eldorado 10W	0.13		Silver Valley	0.87
Fort Griffin	4.00		Stamford	1.41
Fort McKavett	0.33		Sterling City	1.30
Glen Cove 2NE	1.21		Taylor Ranch	0.00
Hamlin	0.74		Water Valley	3.40
Humble Pump	0.00		Winters 1NE	1.41
Junction 4SSW	0.57		(M) <i>Missing data</i>	
Lawn	2.20		(T) <i>Trace</i>	

Reservoir Conditions (end of August, 2011)

Reservoir	Conservation Capacity (Ac-Ft)	End of Month Capacity (Ac-Ft)	Percent of Capacity (%)
Fort Phantom Hill	70,030	39,860	57
Lake Stamford	51,570	30,720	60
Hubbard Creek Lake	317,800	148,220	47
Hords Creek Lake	8,800	2,050	25
Lake Brownwood	131,428	53,730	41
E.V. Spence	488,760	2,550	0
O.C. Fisher	119,200	1,550	1
O.H. Ivie	554,340	123,400	22
Twin Buttes	177,800	15,450	9

Hydro Products Issued

FFA = 2

FFW = 2

FFS = 5

FLS = 7 (Urban/Small Stream Advisory)

ESF = 2 (Probabilistic Forecast)

The NWS precipitation analysis can be viewed at <http://water.weather.gov/>.

The total monthly precipitation estimate and percent of normal precipitation for August across the San Angelo HSA is depicted below.

